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| | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-------------|-----------------|----------------------------------------------------------------|----------------------|---------------------|--------------------|--|
| | 09/901,329 | 07/09/2001 | Terry L. Cole | 2000.053500 | 6034 | |
| | 23720 7 | 23720 7590 09/30/2005 | | EXAMINER | | |
| | · | WILLIAMS, MORGAN & AMERSON, P.C. 10333 RICHMOND, SUITE 1100 | | | MOORTHY, ARAVIND K | |
| HOUSTON, TX | | | • | ART UNIT | PAPER NUMBER | |
| | | | | 2131 | | |

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| <u>′</u> 1 · | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Assistant Community | 09/901,329 | COLE ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Aravind K. Moorthy | 2131 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 22 Ju | 1) Responsive to communication(s) filed on 22 July 2005. | | | | | |
| • • • | | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>09 July 2001</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | | | | | |

DETAILED ACTION

- 1. This is in response to the amendment filed on 22 July 2005.
- 2. Claims 1-19 are pending in the application.
- 3. Claims 1-19 have been rejected.

Response to Arguments

4. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Barabash et al U.S. Patent No. 6,101,378.

As to claims 1, 9, 15 and 19, Barabash et al discloses a communications system, comprising:

a physical layer hardware unit adapted to communicate data over a communications channel, the physical layer hardware unit being adapted to receive unencrypted control codes [column 6, lines 34-42] and encrypted user data [column 2, lines 18-38] over the communications channel and transmit an

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upstream data signal over the communications channel based on the control codes [column 6, lines 34-42]; and

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a processing unit adapted to execute a software driver for interfacing with the physical layer hardware unit, the software driver including program instructions for implementing a protocol layer to decrypt the user data and provide the upstream data to the physical layer hardware unit [column 2, lines 18-38].

As to claims 2, 5, 10, 13 and 16, Barabash et al discloses that the control codes includes at least one of a power level assignment, a frequency assignment, and a tune slot assignment [column 6, lines 34-42].

As to claims 3, 11 and 17, Barabash et al discloses that the physical layer hardware unit includes:

an analog front end adapted to sample a received signal over the communications channel to generate received signal samples [column 3, lines 38-51];

a downconverter adapted to process the received signal samples to generate a carrierless waveform including the user data [column 3, lines 28-37]; and

a demodulator adapted to demodulate the received signal samples to generate the control codes [column 6, lines 34-42].

As to claims 4, 12 and 18, Barabash et al discloses that the physical layer hardware unit includes control logic adapted to receive the control codes and configure the downconverter based on the control codes [column 6, lines 34-42].

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As to claims 6 and 14, Barabash et al discloses that the physical layer hardware unit includes:

an upconverter adapted to receive the upstream data and generate an upstream digital signal, wherein the analog front end unit is further adapted to receive the upstream digital signal and generate the upstream data signal [column 6, lines 34-42]; and

control logic adapted to receive the control codes and configure the upconverter based on the control codes [column 6, lines 34-42].

As to claim 7, Barabash et al discloses that the processing unit comprises a computer [column 3, lines 18-28].

As to claim 8, Barabash et al discloses that the computer includes:

a processor complex adapted to execute the program instructions in the software driver [column 2, lines 54-67];

a bus coupled to the processor complex [column 2, lines 54-67]; and an expansion card coupled to the bus, the expansion card including the physical layer hardware [column 2, lines 54-67].

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Arayind K. Moorthy whose telephone number is 571-272-3793.

The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aravind K Moorthy RN September 27, 2005

Prinay Examiner (N) 2131 9/27/25

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